



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,361	12/01/2003	Delphine Duclos	67493.000006	8077
21967 7590 01/29/2007 HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON, DC 20006-1109			EXAMINER LANGEL, WAYNE A	
			ART UNIT 1754	PAPER NUMBER
			MAIL DATE 01/29/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

✓

<b>Response to Rule 312 Communication</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/724,361	DUCLOS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Wayne Langel	1754	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 09 January 2007 under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

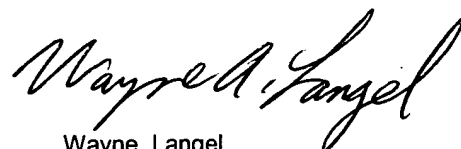
c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

2. ☒ The Drawings filed 1-9-07 are approved.



Wayne Langel  
Primary Examiner  
Art Unit: 1754

1-9-07

Appln. No. 10/724,361

**AMENDMENTS TO THE SPECIFICATION:**

Please amend the specification as follows in accordance with 37 C.F.R. § 1.121:

On page 3, before the paragraph beginning on line 21, enter the following paragraph:

**Brief Description of the Drawings**

Fig. 1 shows conversion of  $N_2O$  for  $CeO_2$  (21.2%)/ $ZrO_2$  (78.8%)

Fig. 2 shows conversion of  $N_2O$  for  $CeO_2$  (48.9%)/ $ZrO_2$  (51.1%)

Fig. 3 shows conversion of  $N_2O$  for  $CeO_2$  (60.4%)/ $ZrO_2$  (36.4%)/ $Y_2O_3$  (3.2%)

Fig. 4 shows conversion of  $N_2O$  for  $CeO_2$  (70.2%)/ $ZrO_2$  (28.8%)

On page 7, delete figure I from the specification.

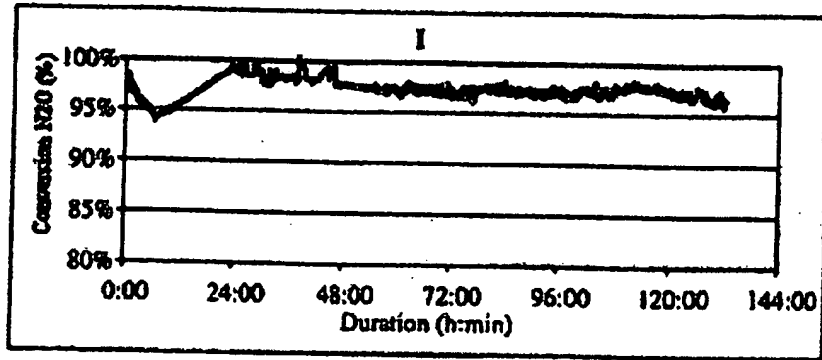
On page 8, delete figures II and III from the specification.

On page 9, delete figure IV from the specification.

okay to  
enter  
WAL  
1-25-07



Approved  
WAL  
1-25-07  
  
okay to  
enter  
WAL  
1-25-07

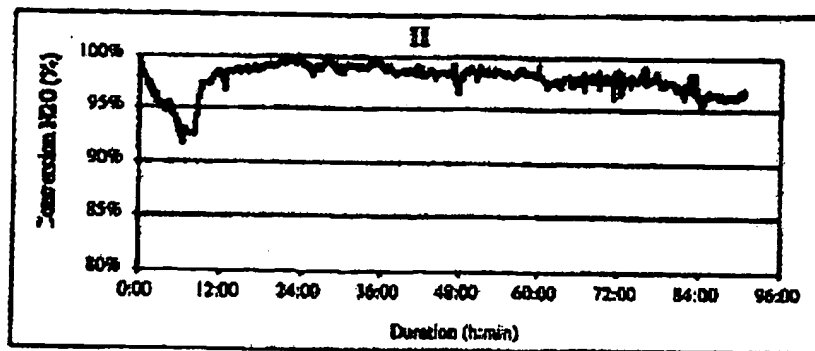


I:  $\text{CeO}_2$  (21.2%)/ $\text{ZrO}_2$  (78.8%)

HSV = 50 000  $\text{h}^{-1}$  - Temperature = 850°C

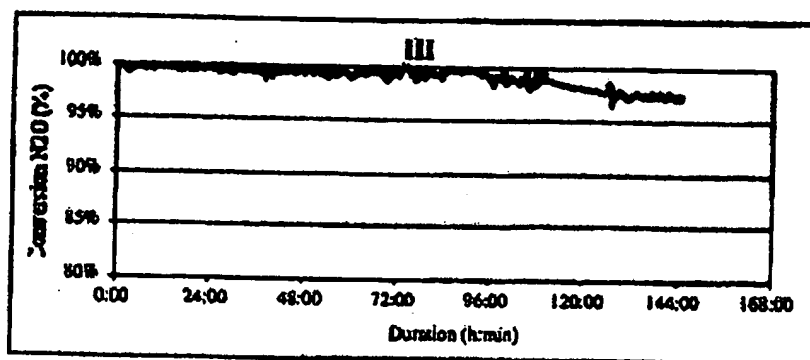
Fig. 1

BEST AVAILABLE COPY



II: CeO<sub>2</sub> (48.9%)/ZrO<sub>2</sub> (51.1%)  
 HSV = 50 000 h<sup>-1</sup> - Temperature = 850°C

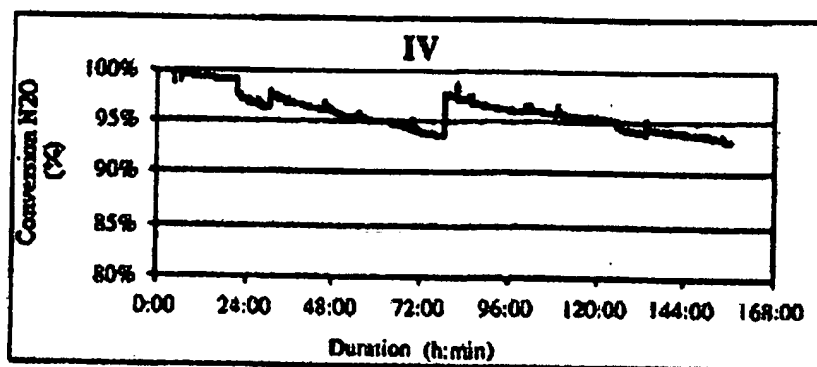
Fig. 2



III: CeO<sub>2</sub> (60.4%)/ZrO<sub>2</sub> (36.4%)/Y<sub>2</sub>O<sub>3</sub> (3.2%)

HSV = 50 000 h<sup>-1</sup> - Temperature = 850°C

Fig. 3



IV: CeO<sub>2</sub> (70.2%)/ZrO<sub>2</sub> (29.8%)  
HSV = 80 000 h<sup>-1</sup> · Temperature = 850°C

**Fig. 4**